

09/892,461

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,657,340 B2
DATED : December 2, 2003
INVENTOR(S) : Rikuro Obara

Page 1 of 3

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page.

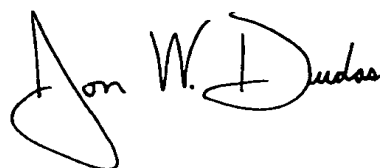
Please replace the title page with the attached title page.

Drawings.

Please replace Fig. 4 with the attached Fig. 4.

Signed and Sealed this

Tenth Day of May, 2005

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is stylized, with a large, looped initial "J" and a cursive "Dudas".

JON W. DUDAS
Director of the United States Patent and Trademark Office

(12) **United States Patent**
Obara

(10) **Patent No.:** **US 6,657,340 B2**
(45) **Date of Patent:** **Dec. 2, 2003**

(54) **MOTOR AND METHOD OF
MANUFACTURING THE SAME**

(75) **Inventor:** **Rikuro Obara, Miyota-machi (JP)**

(73) **Assignee:** **Minebea Co., Ltd., Nagano-ken (JP)**

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** **09/892,461**

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(51) **Int. Cl.⁷** **H02K 7/08**

(52) **U.S. Cl.** **310/90; 29/598; 384/100**

(58) **Field of Search** **310/90; 29/598;
384/100**

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Primary Examiner—Joseph Waks

(74) *Attorney, Agent, or Firm*—Oliff & Berridge, PLC

(57) **ABSTRACT**

A motor and a method of manufacturing the motor are provided for preventing undesirable deformation of the sleeve hole caused by a press fitting force during press fitting process, thus facilitating the assembly process and improving the productivity. A recess is formed on an inner peripheral wall of a center cylindrical portion at the center of a flange body. When press fitting a sleeve body into a hole (sleeve fitting hole) of a flange assembly unit for integrating both members, the annular recess of the flange assembly unit serves to reduce the contact area between the sleeve body and the flange body. The press-fitting force exerted to the contact area is reduced. Therefore the deformation of the inner diameter of the sleeve body that has been press fitted is minimized, thus suppressing deformation of the inner diameter portion of the sleeve body and the flange body.

7 Claims, 5 Drawing Sheets

